

Monitoring Data RecordProject Title: R-2719A Crescent Road COE Action ID: 200802460WQC Number: 003763Stream Name: UT to Falling CreekCity, County and other Location Information: UT to Falling Creek is located on US 70 just west of the C.F. Harvey Parkway interchange in Kinston, Lenoir Co.Date Construction Completed: 3/3/11Monitoring Year: ( 4 ) of 5Ecoregion: Southeastern Floodplains and Low Terraces 8 digit HUC unit 03020202USGS Quad Name and Coordinates: 35.261881, -77.683669**Rosgen Classification:** E5Length of Project: 2,393' Urban or Rural: Rural Watershed Size: 0.5 sq. milesMonitoring DATA collected by: M. Green, J. Young, J. Elliott, and P. AllenDate: 6/10/15

## Applicant Information:

Name: NCDOT Roadside Environmental UnitAddress: 1425 Rock Quarry Road Raleigh, NC 27610Telephone Number: (919) 861-3772 Email address: [mlgreen@ncdot.gov](mailto:mlgreen@ncdot.gov)

## Consultant Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email address: \_\_\_\_\_

**Project Status:** Complete**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level (1) ~~2~~ ~~3~~Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

**Permit States:** Monitoring of the stream restoration areas shall consist of Level 1 monitoring requirements. Monitoring shall be performed twice annually (summer and winter) for each year of a five year period following completion of the work. Monitoring activities shall consist of reference photos, plant survival determinations, and visual inspection of stream stability. The sites shall be monitored for five years, provided at least two bankfull events have occurred during this monitoring period. If two bankfull events have not occurred by the end of the five year monitoring period, the NCDOT may, at the DWQ's discretion, cease further monitoring of the site. The two bankfull events should occur within different monitoring years.

The permittee shall monitor the onsite buffer mitigation site. Monitoring shall consist of visual review and photo evidence. An annual report shall be submitted to the DWQ for a period of five years showing monitoring results, survival rate/success of tree and vegetation establishment, and that diffuse flow through the riparian buffer has been maintained. The first annual report shall be submitted within one year of final planting. Failure to achieve a buffer density of 320 trees per acre after five years will require the annual report to provide appropriate remedial actions to be implemented and a schedule for implementation. Approval of the final annual report and a formal "close out" of the mitigation site by the DWQ is required.

Section 1. PHOTO REFERENCE SITES*(Monitoring at all levels must complete this section)***Total number of reference photo locations at this site:****12 photos were taken from 6 photo point locations along the channel and 2 overview photos were taken of the site****Dates reference photos have been taken at this site:** 1/31/12, 7/20/12, 1/29/13, 7/11/13, 1/14/14, 6/26/14, 1/23/15, 6/10/15**Individual from whom additional photos can be obtained (name, address, phone):** \_\_\_\_\_

Plot #	River Birch	Green Ash	Overcup Oak	Swamp Chestnut Oak	Baldcypress	Total (Year 4)	Total (at planting)	Density (Tree/Acre)
1	21	5	3		2	31	37	570
2	15	6	3	1	2	27	41	448
3	4	20	4	1	3	32	41	531
4	15	9	11		3	38	50	517
Year 4 Average Density								516
Year 3 Average Density								498
Year 2 Average Density								537
Year 1 Average Density								625

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT to Falling Creek is stabilized for the Year 4 Summer evaluation. Bankfull determinations are being recorded by a surface gauge located along the streambank. See the weblink for UT to Falling Creek gauges to see a graph of bankfull events. NCDOT will continue to monitor channel stability at the UT to Falling Creek stream mitigation site.

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Date	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

### Section 4. DEBIT LEDGER

The entire UT to Falling Creek stream mitigation site was used for the R-2719A project to compensate for unavoidable stream impacts.

# UT to Falling Creek



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

# UT to Falling Creek



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

# UT to Falling Creek



Plot #1



Plot #2



Plot #3



Plot #4



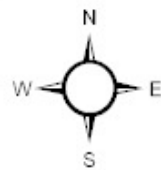
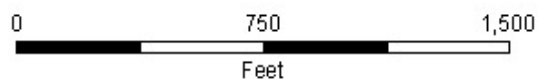
Overview photo looking upstream from US 70

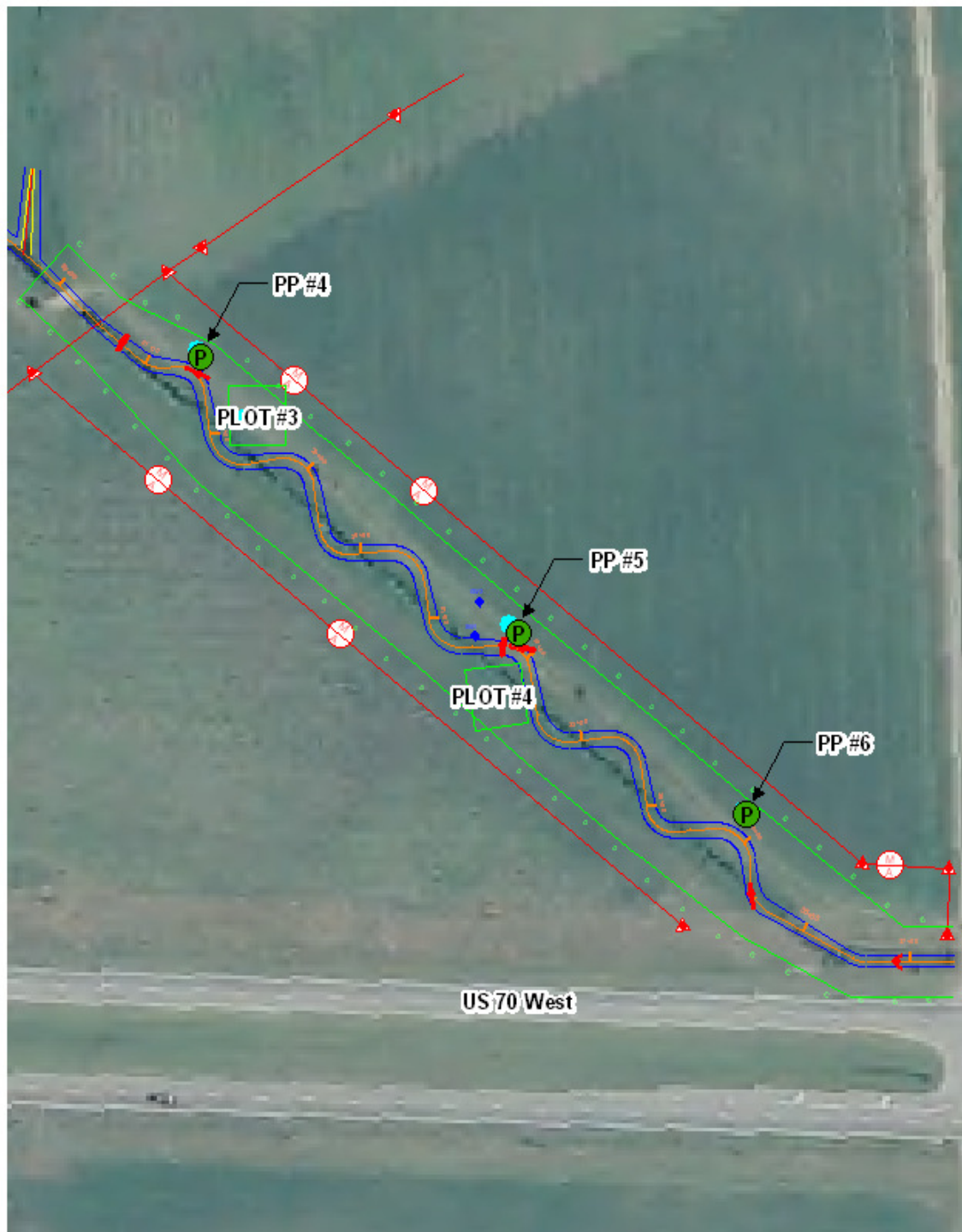


Overview photo looking downstream from US 70



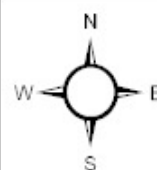
R-2719A UT to Falling Creek Stream Restoration Site  
Vegetation Plot & Photo Point Locations  
Lenoir County, North Carolina





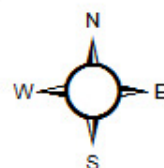
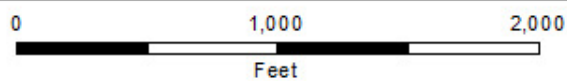
R-2719A UT to Falling Creek Stream Restoration Site  
Vegetation Plot & Photo Point Locations  
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0 750 1,500  
Feet





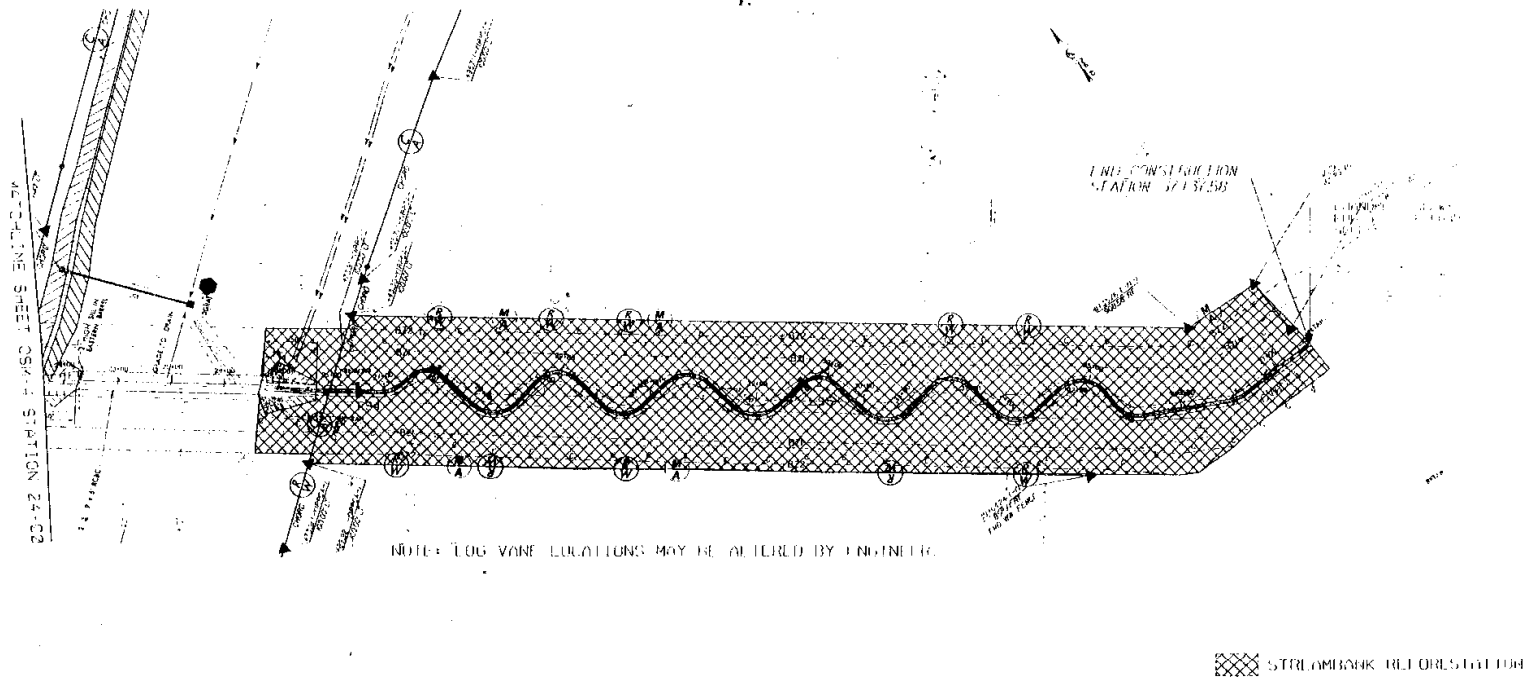
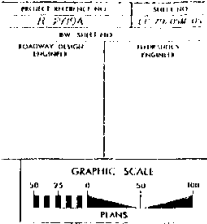
PROJECT VICINITY - R-2719A  
 UT to Falling Creek Mitigation Site  
 Lenoir County, North Carolina



PROJECT REQUESTED BY	SOURCE
U.S. AIR FORCE	U.S. AIR FORCE
NAME	
RESEARCHER'S NAME	PROJECT NAME
LOCATION	ADDRESS



# 2 ACRES STREAMBANK REFORESTATION



SEE OSM-9, OSM-10 AND PROJECT SPECIAL PROVISIONS